

JAPANESE

[JP,3052290,U]

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CLAIMS DETAILED DESCRIPTION TECHNICAL FIELD EFFECT OF THE INVENTION  
TECHNICAL PROBLEM MEANS EXAMPLE DESCRIPTION OF DRAWINGS DRAWINGS

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[Translation done.]

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CLAIMS

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[Utility model registration claim]

[Claim 1] the adapter attached to the \*\*\*\* position of a bucket body -- the bucket mechanism for shovel machines characterized by forming the concealment board which conceals the gap between the base of the TSUSU board of right and left of an engagement crevice, and a bucket-body point in the whole surface or the vertical side of a base of the TSUSU board when the engagement crevice of the TSUSU board is inserted in the engagement heights of a member and it fixes with a fixed means

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DETAILED DESCRIPTION

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[Detailed explanation of a design]

[0001]

[The technical field to which a design belongs]

This design is related with the bucket structure of shovel machines, such as a power shovel and a front end loader, used for a civil work etc.

[0002]

[The technical problem which a Prior art and a design tend to solve]

In bucket-body [ of shovel machines, such as a power shovel and a front end loader, ] A The base of a member 1 is attached firmly by the method of welding and others. the \*\*\*\* position -- an adapter -- an adapter -- engagement crevice 2' of the TSUSU board 2 for leveling work to the engagement heights 2 of a member 1 -- inserting in -- a lock pin -- the fixed meanses a, such as a member, -- an adapter -- a member 1 and the TSUSU board 2 were fixed in one, and loading to leveling, a truck, etc. of earth and sand, ballast, Iwakata, etc. which this excavated was performed

[0003]

however -- this conventional type bucket structure -- an adapter -- when engagement crevice 2' of the TSUSU board 2 was inserted in engagement heights 1' of a member 1, and it fixed with the fixed means a, and Gap c was generated and earth and sand, ballast, etc. were inevitably scooped up with a bucket like drawing 7 between the base of the TSUSU board 2 of right and left of engagement crevice 2', and a bucket-body point, these fell from this gap c and working capacity was bad

[0004]

This design offers the bucket structure for shovel machines which solved the above-mentioned fault by forming the concealment board 3 which conceals the above-mentioned gap c in the whole surface or the vertical side of a base of engagement crevice 2'. [ of the TSUSU board 2 ]

[0005]

[Means for Solving the Problem]

The summary of this design is explained with reference to an accompanying drawing.

[0006]

the adapter which attached to the \*\*\*\* position of bucket-body A -- when engagement crevice 2' of the TSUSU board 2 inserts in engagement heights 1' of a member 1 and it fixes with the fixed means a, the bucket mechanism for shovel machines characterized by to form the concealment board 3 which conceals the gap c between the base of the TSUSU board 2 of right and left of engagement crevice 2' and a bucket-body point in the whole surface or the vertical side of a base of the TSUSU board 2 starts

[0007]

[The form of implementation of a design]

The operation effect is shown and the form of operation of this design is explained based on the drawing which is an example of operation.

[0008]

since the concealment board 3 was formed in the whole surface or the vertical side of a base of the

TSUSU board 2 -- an adapter, if engagement crevice 2' of the TSUSU board 2 is inserted in engagement heights 1' of a member 1 and it fixes with the fixed means a Since the gap c between the base of the TSUSU board 2 of right and left of engagement crevice 2' and a bucket-body point is concealed with the concealment board 3, It is lost that earth and sand, ballast, etc. fall from Gap c like before when earth and sand, ballast, etc. are scooped up with a bucket, can carry out work comfortably, and working capacity improves, and also The TSUSU board 2 which was being fixed to the member 1 will be supported also with the concealment board 3. the conventional fixed means a -- minding -- an adapter -- Since the load of fixation of the fixed means a decreases, damage on the fixed means a decreases remarkably, the TSUSU board 2 is fixed so firmly, as the result, it decreases with [ of the TSUSU board 2 ] backlash remarkably, and it serves as long bucket structure for shovel machines of a life.

[0009]

[Example]

An accompanying drawing illustrates an example of the suitable operation for this design.

[0010]

the adapter attached to the \*\*\*\* position of bucket-body A -- when engagement crevice 2' of the TSUSU board 2 is inserted in engagement heights 1' of a member 1 and it fixes with the fixed means a, the concealment board 3 which conceals the gap c between the base of the TSUSU board 2 of right and left of engagement crevice 2' and a bucket-body point is formed in the whole surface or the vertical side of a base of the TSUSU board 2

[0011]

The base of a member 1 is attached firmly by the method of welding and others. illustrated drawing 5 -- the \*\*\*\* position of bucket-body A -- an adapter -- Engagement crevice 2' of the TSUSU board 2 is inserted in engagement heights 1' of the loose rectangle truncated-pyramid configuration of a member 1. an adapter -- It inserts in the long hole 6 which formed the member 5 in engagement heights 1' via the long hole 7 of the TSUSU board 2. the piece as a fixed means a -- a piece -- between a member 5, the long hole 6 of engagement heights 2', and the long holes 7 of engagement crevice 2' -- a lock -- a member 8 -- devoting oneself -- an adapter -- an example of the operation which fixes a member 1 and the TSUSU board 2 in one is illustrated

[0012]

in addition, the lock with which the block board of a thick-plate configuration, the elastic synthetic-resin object which carried out the mould in [ 52 / the unilateral edge flat-surface section of the block board 51 / as the block board 51 ] one, and 53 engage with a stop crevice in the sign 51 in drawing, and 81 engages with the aforementioned stop crevice 53 -- it is the engagement crevice established in the member 8

[0013]

Engagement crevice 2' which engages with engagement crevice 1' of the loose rectangle truncated-pyramid configuration of a member 1 is prepared. the central upper part of \*\*\*\*\* 21 from which the TSUSU board 2 of a type serves as a main part of the TSUSU board 2 conventionally which was illustrated -- the aforementioned adapter -- The upper-limit section forms in a monotonous configuration almost level to the upper limit of engagement crevice 2' the right-wing section 22 of \*\*\*\*\* 21 formed successively to this engagement crevice 2'. From the upper part, see, get down from the middle, cut and lack the protrusion section of the method of the right of this monotonous configuration to the center line of the longitudinal direction of engagement crevice 2' through the step of a direction, and engagement section 22' is formed. \*\*\*\*\* -- 21 -- the left wing -- the section -- 23 -- engagement -- a crevice -- two -- ' -- forming successively -- two -- a sheet -- composition -- monotonous -- a configuration -- the undersurface -- engagement -- contact -- a board -- 23 -- ' -- the upper surface -- engagement -- contact -- a board -- 23 -- " -- constituting -- It forms in the monotonous configuration which makes a horizontal position a upper-limit side and are formed successively to engagement crevice 2'. this undersurface engagement contact board 23' -- the lock of the fixed means a -- placing of a member 8 -- a hole -- The left end section approach of this undersurface engagement contact board 23' is formed so

that the undersurface of engagement section 22' of the aforementioned right-wing section 22 may be contacted. In contact with the upper surface of engagement section 22' of the aforementioned right-wing section 22, an upper-limit side forms upper surface engagement contact board 23" in the almost same height as the height of engagement section 22' of the right-wing section 22, and the left-wing section 23 is formed.

[0014]

Since the TSUSU board 2 of this design was formed as mentioned above one -- TSUSU -- the board -- two -- engagement -- a crevice -- two -- ' -- an adapter -- a member -- one -- engagement -- heights -- one -- ' -- having inserted in -- after -- two -- TSUSU -- the board -- two -- the left wing -- the section -- 23 -- the undersurface -- engagement -- contact -- a board -- 23 -- ' -- the upper surface -- engagement -- contact -- a board -- 23 -- " -- one -- TSUSU -- the board -- two -- the right wing -- the section -- It inserts in 1 engagement projected part 1'. while carrying out \*\* arrival -- the adapter of the engagement crevice 2'2 of the TSUSU board 2 of 2 -- a member -- this work -- continuing -- a predetermined number of TSUSU boards 2 -- the \*\*\*\* position of bucket-body A -- arranging -- the fixed means a -- each TSUSU board 2 -- each adapter, if it fixes to a member 1 firmly Gap c is inevitably formed between right and left and the bucket-body points of engagement crevice 2' of the base of each TSUSU board 2.

[0015]

Drawing 1 and 2 explain the example of the concealment board 3 first.

[0016]

Set up the concealment board 3 of a rectangle board configuration to the upper limit of undersurface engagement contact board 23' of the left-wing section 23 of the aforementioned TSUSU board 2, and welding or the concealment board 3 is the TSUSU board 2 and really cast for the soffit section in an object. Up, the left end section is installed in the right-hand side edge of engagement crevice 2' of the left TSUSU board 2 for the upper limit of this concealment board 3 in the state of proximity from the point of the main part A of a bracket, and the concealment board 3 is formed, and it prepares so that the gap c between the base of the aforementioned TSUSU board 2 and a bucket-body point may be concealed with this concealment board 3.

[0017]

Drawing 3 -6 are a drawing illustrating the case where this concealment board 3 is formed in the vertical side of the TSUSU board 2. The same concealment board 3 as the above other than the concealment board 3 welding or the TSUSU board 2, and really cast in the object on the whole surface of the TSUSU board 2 is already installed in the upper-limit section approach of upper surface engagement contact board 23" of a sheet of TSUSU board 2 by the means like the above, and the case where both gap is concealed from a vertical side is illustrated.

[0018]

[Effect of the Device]

the adapter which attached this design to the \*\*\*\* position of a bucket body as mentioned above, when the engagement crevice of the TSUSU board is inserted in the engagement heights of a member and it fixes with a fixed means Since the concealment board which conceals the gap between the base of the TSUSU board of right and left of an engagement crevice and a bucket-body point was formed in the whole surface or the vertical side of a base of the TSUSU board an adapter, since the gap produced between the base of the TSUSU board of right and left of an engagement crevice and a bucket-body point will be concealed with a concealment board, if the engagement crevice of the TSUSU board is inserted in the engagement heights of a member and it fixes with a fixed means It is lost that earth and sand, ballast, etc. fall from this gap like before when earth and sand, ballast, etc. are scooped up with a bucket, and work can be carried out comfortably. The TSUSU board which was being fixed to the member 1 will be supported also with a concealment board. the fixed means of the former [ working capacity improves and also ] -- minding -- an adapter -- Since the load of fixation of a fixed means decreases, it decreases remarkably and the TSUSU board is fixed so firmly, as the result, it decreases with [ of the TSUSU board ] backlash remarkably, and damage on a fixed means serves as the bucket structure for shovel machines of

demonstrating the effect which is the long working plane of a life and was excellent.

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**DESCRIPTION OF DRAWINGS**

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[Brief Description of the Drawings]

[Drawing 1] It is the plan of the TSUSU board which attached the concealment board to the whole surface of one example of this design.

[Drawing 2] It is the perspective diagram of the above-mentioned important section.

[Drawing 3] It is the plan of the TSUSU board which attached the concealment board to the vertical side of one example of this design.

[Drawing 4] It is the perspective diagram of the above-mentioned important section.

[Drawing 5] It is the decomposition perspective diagram showing the composition of the TSUSU board and the adapter member which attached the concealment board to the vertical side of one example of this invention, and a fixed mechanism.

[Drawing 6] It is the side elevation which cut and lacked the part which illustrated the concealment state of a concealment board for the gap between the base of the TSUSU board at the time of attaching the TSUSU board which attached the concealment board to the vertical side of one example of this design to the \*\*\*\* position of a bucket body, and a bucket-body point.

[Drawing 7] It is the perspective diagram for explanation of the gap produced between the bases of the TSUSU board and bucket-body points which were attached to the \*\*\*\* position of the conventional bucket body.

[Description of Notations]

- 1 Adapter -- Member
  - 11 Engagement Heights
  - 2 TSUSU Board
  - 2' Engagement crevice
  - 3 Concealment Board
  - A Bucket body
  - Fixed means
  - c Gap
- 

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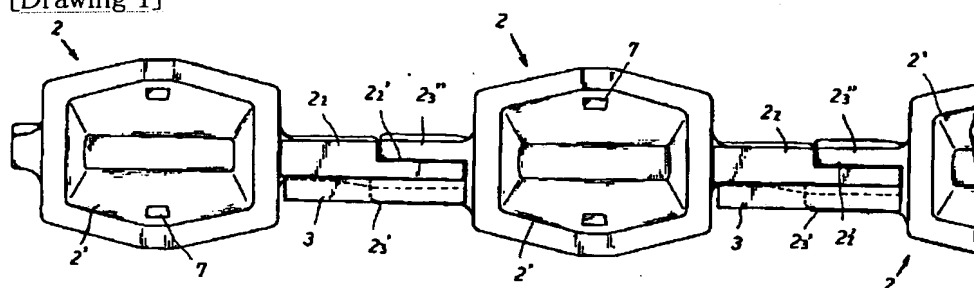
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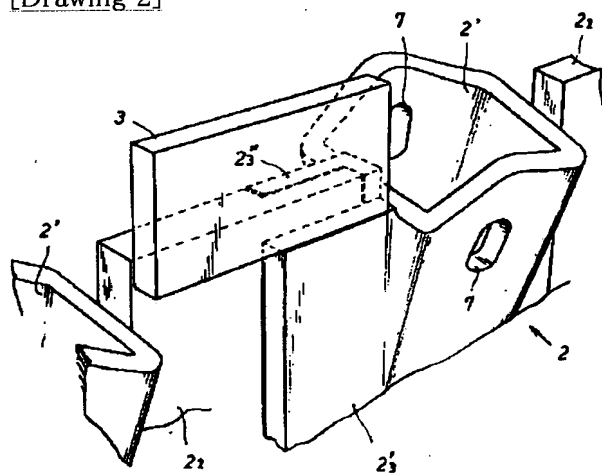
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## DRAWINGS

[Drawing 1]

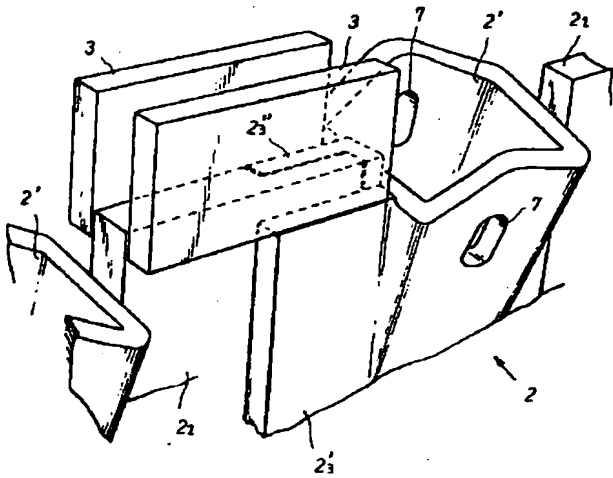


[Drawing 2]

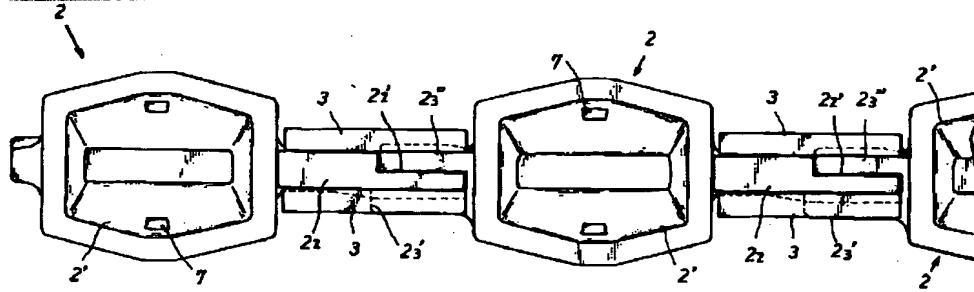


[Drawing 4]

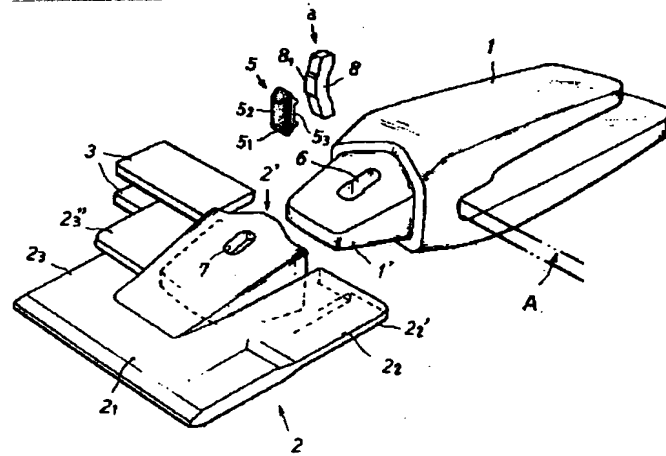




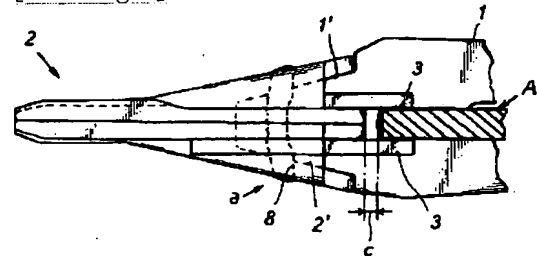
[Drawing 3]



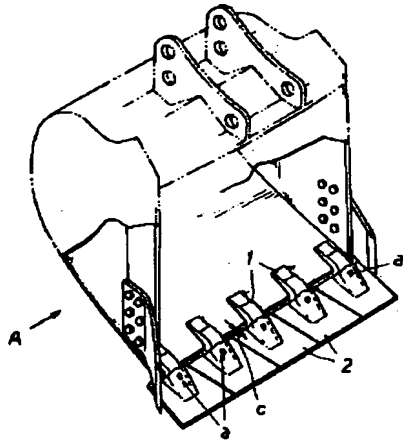
[Drawing 5]



[Drawing 6]



[Drawing 7]



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[Translation done.]

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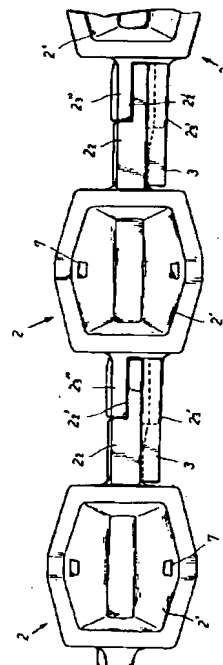
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(54) 【考案の名称】 ショベル機械用バケット構造

(57) 【要約】

【課題】 ショベル機械のバケット本体の掬土位置に付設したツース盤の基部とバケット本体先端部との間の間隙を隠蔽するショベル機械用バケット構造を提供する。

【解決手段】 バケット本体Aの掬土位置に付設したアダプタ部材1の係合凸部1'にツース盤2の係合凹部2'を被嵌し固定手段aで固定したとき、係合凹部2'の左右のツース盤2の基部とバケット本体先端部との間の間隙cを隠蔽する隠蔽板3をツース盤2の基部の一面若しくは上下面に設け



1

【実用新案登録請求の範囲】

【請求項1】 バケット本体の掬土位置に付設したアダプタ部材の係合凸部にツース盤の係合凹部を被嵌し固定手段で固定したとき、係合凹部の左右のツース盤の基部とバケット本体先端部との間の間隙を隠蔽する隠蔽板をツース盤の基部の一面若しくは上下面に設けたことを特徴とするショベル機械用バケット機構。

【図面の簡単な説明】

【図1】 本考案の一実施例の一面に隠蔽板を付設したツース盤の平面図である。

【図2】 上記の要部の斜視図である。

【図3】 本考案の一実施例の上下面に隠蔽板を付設したツース盤の平面図である。

【図4】 上記の要部の斜視図である。

【図5】 本発明の一実施例の上下面に隠蔽板を付設したツース盤とアダプタ部材と固定機構の構成を示す分解斜視図である。

\*

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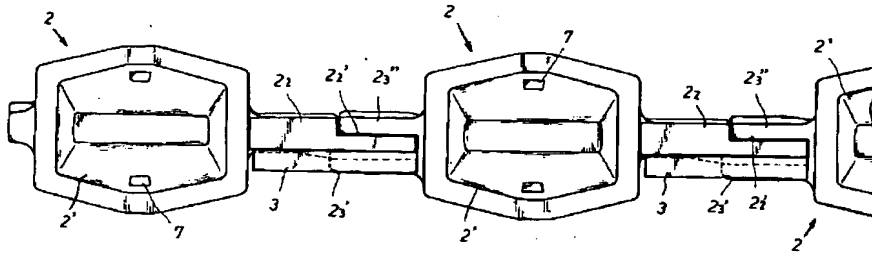
\*【図6】 本考案の一実施例の上下面に隠蔽板を付設したツース盤をバケット本体の掬土位置に付設した場合のツース盤の基部とバケット本体先端部との間の間隙を隠蔽板の隠蔽状態を図示した一部を切り欠いた側面図である。

【図7】 従来のバケット本体の掬土位置に付設したツース盤の基部とバケット本体先端部との間に生じる間隙の説明用斜視図である。

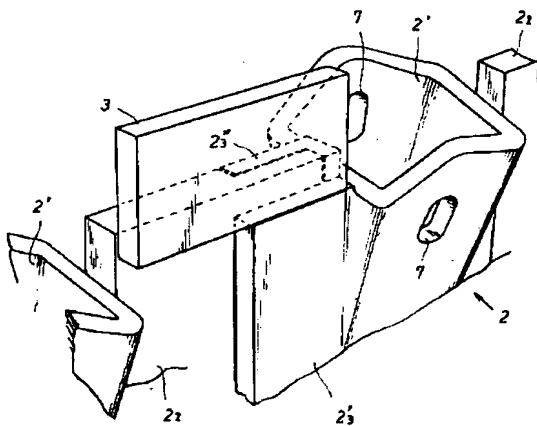
【符号の説明】

- 10 1 アダプタ部材  
1 係合凸部  
2 ツース盤  
2' 係合凹部  
3 隠蔽板  
A バケット本体  
a 固定手段  
c 間隙

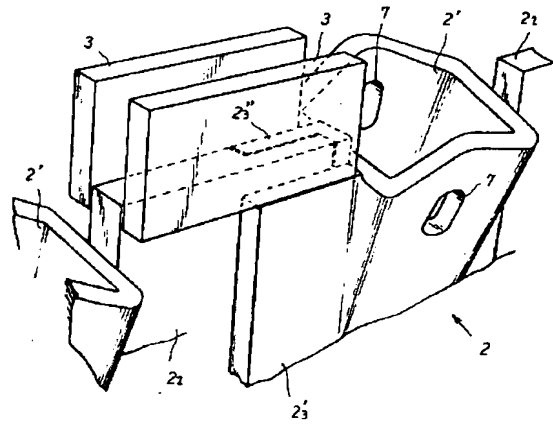
【図1】



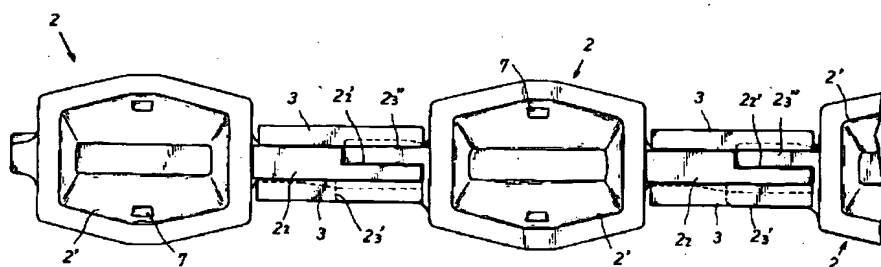
【図2】



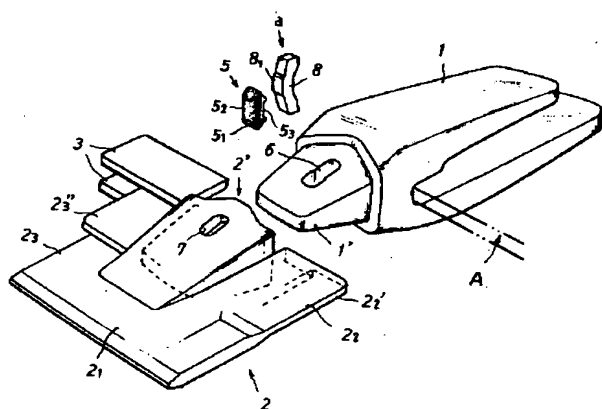
【図4】



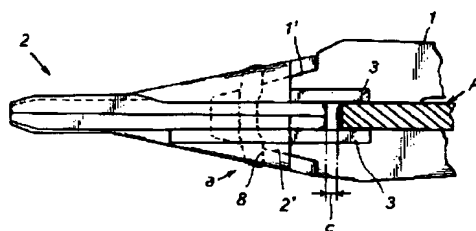
【図3】



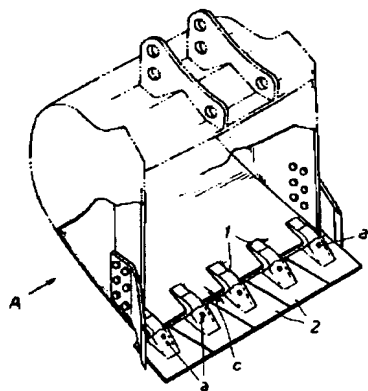
【図5】



【図6】



【図7】



## 【考案の詳細な説明】

## 【0001】

## 【考案の属する技術分野】

本考案は土木工事などに使用するパワーショベルやショベルローダなどのショベル機械のバケット構造に関するものである。

## 【0002】

## 【従来の技術及び考案が解決しようとする課題】

パワーショベルやショベルローダなどのショベル機械のバケット本体Aには、その掬土位置にアダプタ部材1の基部を溶接その他の方法により止着し、アダプタ部材1の係合凸部2に整地作業用のツース盤2の係合凹部2'を被嵌し、ロックピン部材などの固定手段aによりアダプタ部材1とツース盤2とを一体的に固定し、これにより掘削した土砂や砂利や岩片などの整地や運搬車などへの積み込みを行っていた。

## 【0003】

しかしながら、この従来タイプのバケット構造ではアダプタ部材1の係合凸部1'にツース盤2の係合凹部2'を被嵌し固定手段aで固定したとき、図7のように必然的に係合凹部2'の左右のツース盤2の基部とバケット本体先端部との間に間隙cが生じ、バケットで土砂と砂利などをすくった場合、これらがこの間隙cからこぼれ落ちて作業能率が悪かった。

## 【0004】

本考案は係合凹部2'のツース盤2の基部の一面若しくは上下面に上記間隙cを隠蔽する隠蔽板3を設けることにより上記欠点を解決したショベル機械用のバケット構造を提供するものである。

## 【0005】

## 【課題を解決するための手段】

添付図面を参照して本考案の要旨を説明する。

## 【0006】

バケット本体Aの掬土位置に付設したアダプタ部材1の係合凸部1'にツース盤2の係合凹部2'を被嵌し固定手段aで固定したとき、係合凹部2'の左右のツース盤2の基部とバケット本体先端部との間に間隙cが生じ、バケットで土砂と砂利などをすくった場合、これらがこの間隙cからこぼれ落ちて作業能率が悪かった。

ース盤2の基部とバケット本体先端部との間の間隙cを隠蔽する隠蔽板3をツール盤2の基部の一面若しくは上下面に設けたことを特徴とするショベル機械用バケット機構に係るものである。

【0007】

【考案の実施の形態】

本考案の実施の形態を作用効果を示して実施の一例である図面に基づいて説明する。

【0008】

ツール盤2の基部の一面若しくは上下面に隠蔽板3を設けたので、アダプタ部材1の係合凸部1'にツール盤2の係合凹部2'を被嵌し固定手段aで固定すると、係合凹部2'の左右のツール盤2の基部とバケット本体先端部との間の間隙cが隠蔽板3で隠蔽されるため、バケットで土砂や砂利などをすくった場合に土砂や砂利などが従来のように間隙cからこぼれ落ちることがなくなり快適に作業が遂行でき作業能率が向上するうえに、従来の固定手段aを介してアダプタ部材1に固定されていたツール盤2が隠蔽板3によっても支承されることになり、固定手段aの固定の負荷が減少するので固定手段aの損傷が著しく低減してツール盤2がそれだけ強固に固定され、その結果としてツール盤2のガタ付きが著しく減少し寿命の長いショベル機械用バケット構造となる。

【0009】

【実施例】

添付図面は本考案に好適な実施の一例を図示したものである。

【0010】

バケット本体Aの掬土位置に付設したアダプタ部材1の係合凸部1'にツール盤2の係合凹部2'を被嵌し固定手段aで固定したとき、係合凹部2'の左右のツール盤2の基部とバケット本体先端部との間の間隙cを隠蔽する隠蔽板3をツール盤2の基部の一面若しくは上下面に設ける。

【0011】

図示した図5はバケット本体Aの掬土位置にアダプタ部材1の基部を溶接その他の方法により止着し、アダプタ部材1の緩やかな矩形角錐台形状の係合凸部1

’にツース盤2の係合凹部2’を被嵌し、固定手段aとしての駒部材5をツース盤2の長孔7を経由して係合凸部1’に設けた長孔6に挿入し、駒部材5と係合凸部2’の長孔6と係合凹部2’の長孔7との間にロック部材8を打ち込んでアダプタ部材1とツース盤2とを一体的に固定する実施の一例を図示している。

【0012】

尚、図中符号5<sub>1</sub>は厚板形状のブロック板体、5<sub>2</sub>はブロック板体5<sub>1</sub>の一側端平面部にブロック板体5<sub>1</sub>と一体的にモールドした弾性合成樹脂体、5<sub>3</sub>は係止凹部、8<sub>1</sub>は前記係止凹部5<sub>3</sub>に係合するロック部材8に設けた係合凹部である。

【0013】

図示した従来タイプのツース盤2は、ツース盤2の本体となる地均板2<sub>1</sub>の中央上部に前記アダプタ部材1の緩かな矩形角錐台形状の係合凹部1’に係合する係合凹部2’を設け、この係合凹部2’に連設した地均板2<sub>1</sub>の右翼部2<sub>2</sub>を上端部がほぼ係合凹部2’の上端とほぼ水平な平板形状に形成し、この平板形状の右方の突設部を途中から上方より見て下り方向の段部を介して係合凹部2’の横方向の中心線まで切り欠いて係合部2<sub>2</sub>’を形成し、地均板2<sub>1</sub>の左翼部2<sub>3</sub>を係合凹部2’に連設する二枚構成の平板形状の下面係合当接板2<sub>3</sub>’と上面係合当接板2<sub>3</sub>”で構成し、この下面係合当接板2<sub>3</sub>’を固定手段aのロック部材8の打ち込み孔水平位置を上端面とし係合凹部2’に連設する平板形状に形成し、この下面係合当接板2<sub>3</sub>’の左端部寄りを前記右翼部2<sub>2</sub>の係合部2<sub>2</sub>’の下面に当接するように形成し、上面係合当接板2<sub>3</sub>”を前記右翼部2<sub>2</sub>の係合部2<sub>2</sub>’の上面に当接し上面が右翼部2<sub>2</sub>の係合部2<sub>2</sub>’の高さとほぼ同じ高さに形成して左翼部2<sub>3</sub>を形成する。

【0014】

本考案のツース盤2を上記のように形成したので、一のツース盤2の係合凹部2’をアダプタ部材1の係合凸部1’に被嵌したあと二のツース盤2の左翼部2<sub>3</sub>の下面係合当接板2<sub>3</sub>’と上面係合当接板2<sub>3</sub>”を一のツース盤2の右翼部2<sub>2</sub>の係合部2<sub>2</sub>’を挟み込むように挟着しながら二のツース盤2の係合凹部2’を二のアダプタ部材1係合突部1’に嵌入し、この作業を継続して所定の数のツース盤2をバケット本体Aの掬土位置に配設し、固定手段aで夫々のツース盤2を夫々のアダプタ部材1に強固に固定すると、夫々のツース盤2の基部の係合凹部2’の



左右とバケット本体先端部との間に必然的に間隙cが形成される。

【0015】

隠蔽板3の実施例についてまず図1、2により説明する。

【0016】

前記ツース盤2の左翼部2<sub>3</sub>の下面係合当接板2<sub>3</sub>'の上端に矩形板形状の隠蔽板3を立設して下端部を溶接若しくは隠蔽板3をツース盤2と一体物で鋳造し、この隠蔽板3の上端をブラケット本体Aの先端部より上方に、左端部を左方のツース盤2の係合凹部2'の右側縁部に近接状態で延設して隠蔽板3を形成し、前記ツース盤2の基部とバケット本体先端部との間の間隙cをこの隠蔽板3で隠蔽するように設ける。

【0017】

図3～6はこの隠蔽板3をツース盤2の上下面に設けた場合を図示した図面であって、ツース盤2の一面に溶接若しくはツース盤2と一体物で鋳造した隠蔽板3の他にもう一面のツース盤2の上面係合当接板2<sub>3</sub>"の上端部寄りに前記と同様な隠蔽板3を前記と同様手段により添設し、両者の間隙を上下面より隠蔽した場合を図示したものである。

【0018】

【考案の効果】

本考案は上記のようにバケット本体の掬土位置に付設したアダプタ部材の係合凸部にツース盤の係合凹部を被嵌し固定手段で固定したとき、係合凹部の左右のツース盤の基部とバケット本体先端部との間の間隙を隠蔽する隠蔽板をツース盤の基部の一面若しくは上下面に設けたので、アダプタ部材の係合凸部にツース盤の係合凹部を被嵌し固定手段で固定すると、係合凹部の左右のツース盤の基部とバケット本体先端部との間に生じる間隙が隠蔽板で隠蔽されるため、バケットで土砂や砂利などをすくった場合に土砂や砂利などが従来のようにこの間隙からこぼれ落ちることがなくなり快適に作業が遂行でき、作業能率が向上するうえに、従来の固定手段を介してアダプタ部材1に固定されていたツース盤が隠蔽板によっても支承されることになり、固定手段の固定の負荷が減少するので固定手段の損傷が著しく低減してツース盤がそれだけ強固に固定され、その結果としてツース盤の

ス盤のガタ付が著しく減少し寿命の長い作業面ですぐれた効果を発揮するショベル機械用バケット構造となる。